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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/492,454	01/27/2000	Xiaowen Yang	YANG I	9889
7590	07/20/2006		EXAMINER	
William H Bollman MANELLI DENISON & SELTER PLLC 2000 M Street NW Suite 700 Washington, DC 20036-3307			MOORTHY, ARAVIND K	
			ART UNIT	PAPER NUMBER
			2131	
			DATE MAILED: 07/20/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/492,454	YANG, XIAOWEN
	<b>Examiner</b>	<b>Art Unit</b>
	Aravind K. Moorthy	2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 26 June 2006.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-22 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-22 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 27 January 2000 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____.   |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____.  | 6) <input type="checkbox"/> Other: _____.                                   |

## DETAILED ACTION

1. This is in response to the arguments filed on 26 June 2006.
2. Claims 1-22 are pending in the application.
3. Claims 1-22 have been rejected.

### *Response to Arguments*

4. Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection.

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 1, 2, 4-10, 12-15, 17, 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Videcrantz et al U.S. Patent No. 6,275,588 BI in view of Miliani et al U.S. Patent No. 5,682,426.**

As to claim 1, Videcrantz et al discloses a device to descramble a packetized digital data stream, comprising:

the packet including a header portion and a data payload, the data payload including a scrambled central portion and an unscrambled portion [column 26, lines 44-60]; and

a descrambler to descramble the scrambled central portion of the data payload of the packet [column 26, lines 44-60];

wherein the header portion is unscrambled [column 26, lines 44-60].

Videcrantz et al does not teach a receiver to receive a packet of a digital data stream wherein only some of a plurality of data packets within the digital data stream are scrambled.

Miliani et al teaches selectively encrypting some of the packets (i.e. premium channels) [column 15, lines 7-15].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al so that the packets containing the premium channels would have only been encrypted. The packets would have included a header portion and a data payload. The data payload would have included a scrambled central portion and an unscrambled portion. A descrambler would have descrambled the scrambled central portion of the data payload of the packet. The header portion would have been entirely unscrambled.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al by the teaching of Miliani et al because by blocking the premium channels, it restricts a user to only the basic channels if the user has not subscribed to the premium movie channels [column 15, lines 7-15].

As to claim 2, Videcrantz et al teaches that the scrambled central portion of the data payload is at a location within the payload portion of the packet such that the scrambled central portion is preceded and succeeded by the unscrambled portion [column 26, lines 44-60].

As to claim 4, Videcrantz et al teaches that the packet contains compressed digital data [column 26, lines 61-67].

As to claim 5, Videcrantz et al teaches that the compressed digital data includes a video signal [column 26, lines 61-67].

As to claim 6, Videcrantz et al teaches that the compressed digital data includes an audio signal [column 26, lines 61-67].

As to claim 7, Videcrantz et al teaches that the compressed digital data includes a video signal and an audio signal [column 26, lines 61-67].

As to claim 8, Videcrantz et al teaches a method of scrambling a packetized digital data stream, comprising;

producing a data packet stream comprising a plurality of data packets [column 26, lines 44-60]; and

scrambling a first central portion of a data payload of some of the plurality of data packets within the data packet stream and without scrambling the header of the packets [column 26, lines 44-60].

Videcrantz et al does not teach a receiver to receive a packet of a digital data stream wherein only some of a plurality of data packets within the digital data stream are scrambled.

Miliani et al teaches selectively encrypting some of the packets (i.e. premium channels) [column 15, lines 7-15].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al so that the packets containing the premium channels would have only been encrypted. The packets would have included a header portion and a data payload. The data payload would have included a scrambled central portion and an unscrambled portion. A descrambler would have descrambled the scrambled central

portion of the data payload of the packet. The header portion would have been entirely unscrambled.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al by the teaching of Miliani et al because by blocking the premium channels, it restricts a user to only the basic channels if the user has not subscribed to the premium movie channels [column 15, lines 7-15].

As to claim 9, Videcrantz et al teaches that the scrambling leaves a second portion of the data payload of each of the some of the plurality of data packets unscrambled [column 26, lines 44-60].

As to claim 10, Videcrantz et al teaches a method of scrambling a packetized digital data stream, comprising:

producing a data packet stream comprising a plurality of data packets [column 26, lines 44-60]; and

scrambling only a central portion of every nth one of the plurality of data packets, where n is an integer greater than 1 [column 26, lines 44-60].

Videcrantz et al does not teach a receiver to receive a packet of a digital data stream wherein only some of a plurality of data packets within the digital data stream are scrambled.

Miliani et al teaches selectively encrypting some of the packets (i.e. premium channels) [column 15, lines 7-15].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al so that the packets containing the premium channels would have only been encrypted. The packets would have included a header

portion and a data payload. The data payload would have included a scrambled central portion and an unscrambled portion. A descrambler would have descrambled the scrambled central portion of the data payload of the packet. The header portion would have been entirely unscrambled.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al by the teaching of Miliani et al because by blocking the premium channels, it restricts a user to only the basic channels if the user has not subscribed to the premium movie channels [column 15, lines 7-15].

As to claim 12, Videcrantz et al teaches compressed video data [column 26, lines 61-67].

As to claim 13, Videcrantz et al teaches compressed audio data [column 26, lines 61-67].

As to claim 14, Videcrantz et al teaches compressed video data and compressed audio data [column 26, lines 61-67].

As to claim 15, Videcrantz et al teaches a method of descrambling a packetized digital data stream, comprising:

receiving a data packet stream comprising a plurality of data packets [column 26, lines 44-60]; and

descrambling only a central portion of every one of the plurality of data packets [column 26, lines 44-60].

Videcrantz et al does not teach descrambling every nth packet, where n is an integer greater than 1, leaving remaining ones of the plurality of data packets as received.

Miliani et al teaches descrambling every nth packet, where n is an integer greater than 1, leaving remaining ones of the plurality of data packets as received [abstract].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al so that only the central portion of every nth packet, where n was an integer greater than 1, would have been decrypted and the leaving the remaining ones.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al by the teaching of Miliani et al because by blocking the premium channels, it restricts a user to only the basic channels if the user has not subscribed to the premium movie channels [column 15, lines 7-15].

As to claim 17, Videcrantz et al teaches an apparatus for scrambling a packetized digital data stream, comprising:

producing a data packet stream comprising a plurality of data packets [column 26, lines 44-60]; and

scrambling a first central portion of a data payload of the plurality of data packets within the data packet stream and without scrambling a header of the plurality of data packets [column 26, lines 44-60].

Videcrantz et al does not teach a receiver to receive a packet of a digital data stream wherein only some of a plurality of data packets within the digital data stream are scrambled.

Miliani et al teaches selectively encrypting some of the packets (i.e. premium channels) [column 15, lines 7-15].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al so that the packets containing the premium channels would have only been encrypted. The packets would have included a header

portion and a data payload. The data payload would have included a scrambled central portion and an unscrambled portion. A descrambler would have descrambled the scrambled central portion of the data payload of the packet. The header portion would have been entirely unscrambled.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al by the teaching of Miliani et al because by blocking the premium channels, it restricts a user to only the basic channels if the user has not subscribed to the premium movie channels [column 15, lines 7-15].

As to claim 19, Videcrantz et al teaches an apparatus for scrambling a packetized digital data stream, comprising: producing a data packet stream comprising:

a plurality of data packets [column 26, lines 44-60]; and  
scrambling only a central portion of the plurality of data packets [column 26, lines 44-60].

Videcrantz et al does not teach a receiver to receive a packet of a digital data stream wherein only some of a plurality of data packets within the digital data stream are scrambled.

Miliani et al teaches selectively encrypting some of the packets (i.e. premium channels) [column 15, lines 7-15].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al so that the packets containing the premium channels would have only been encrypted. The packets would have included a header portion and a data payload. The data payload would have included a scrambled central portion and an unscrambled portion. A descrambler would have descrambled the scrambled central

portion of the data payload of the packet. The header portion would have been entirely unscrambled.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al by the teaching of Miliani et al because by blocking the premium channels, it restricts a user to only the basic channels if the user has not subscribed to the premium movie channels [column 15, lines 7-15].

As to claim 21, Videcrantz et al teaches an apparatus for descrambling a packetized digital data stream, comprising:

receiving a data packet stream comprising a plurality of data packets  
[column 26, lines 44-60]; and

descrambling only a central portion the plurality of data packets [column 26, lines 44-60].

Videcrantz et al does not teach descrambling every nth packet, where n is an integer greater than 1, leaving remaining ones of the plurality of data packets as received.

Miliani et al teaches descrambling every nth packet, where n is an integer greater than 1, leaving remaining ones of the plurality of data packets as received [abstract].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al so that only the central portion of every nth packet, where n was an integer greater than 1, would have been decrypted and the leaving the remaining ones.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Videcrantz et al by the teaching of Miliani et al because by

blocking the premium channels, it restricts a user to only the basic channels if the user has not subscribed to the premium movie channels [column 15, lines 7-15].

**6. Claims 3, 11, 16, 18, 20 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Videcrantz et al U.S. Patent No. 6,275,588 B1 and Miliani et al U.S. Patent No. 5,682,426 as applied to claims 1, 10, 15, 17, 19 and 21 above, and further in view of Newton's Telecom Dictionary (hereinafter Newton).**

As to claims 3, 11, 16, 18, 20 and 22, the Videcrantz-Miliani combination teaches that the digital data stream is an MPEG stream [column 6 line 65 to column 7 line 24].

The Videcrantz-Miliani combination does not teach that the digital data stream is an MPEG-2 digital data stream.

Newton teaches the use of MPEG-2 and its benefits [pages 489-490].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified the Videcrantz-Miliani combination so that the MPEG stream would have been a MPEG-2 digital data stream,

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified the Videcrantz-Miliani combination by the teaching of Newton because MPEG-2 is efficient. MPEG-2 can incorporate a range of compression ratios, which trade off economies of storage and transmission bandwidth against picture quality [pages 489-490].

***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aravind K. Moorthy whose telephone number is 571-272-3793. The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aravind K Moorthy  
July 12, 2006

  
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